CLAIMS

We claim:

1. A method for treating a subterranean formation having a borehole formed therein comprising the steps of:

(a) providing a well treatment tool having:

(i) at least first and second burst disk assemblies,

(ii) an annulus isolation mechanism;

(b) passing said tool into the borehole and positioning the tool in a suitable location for treating the formation;

(c) pumping a treatment fluid through a conduit to the tool and then into the formation.

2. The method of claim 1, wherein each burst disk assembly comprises a membrane and a perforated disk

3. The method of claim 2, further including the step of:

(d) providing a mechanism for blocking fluid flow through the perforated disk.

4. The method of claim 3, wherein the mechanism for blocking fluid flow comprises using ball sealers.

5. The method of claim 1, wherein said well fracturing tool provides a single fluid conduit for providing treatment fluid to multiple intervals

6. The method of claim 1, wherein said first burst disk assembly has a lower bursting pressure than said second burst disk assembly.

7. The method of claim 1, wherein said annulus isolation mechanism comprises using cup packers.

8. The method of claim 1, wherein said annulus isolation mechanism comprises annulus gel packing.

9. The method of claim 1, wherein said annulus isolation mechanism comprises a sand plug formation tool.

10. A method for creating multiple fractures in a subterranean formation having a borehole formed therein comprising the steps of:

(a) providing a well fracturing tool for forming a plurality of fractures in the formation having:

(i) at least first and second burst disk assemblies,

(ii) an annulus isolation mechanism;

(b) passing said tool into the borehole and positioning the tool in a suitable location for fracturing the formation;

(c) pumping a fracturing fluid through a conduit to the tool and into the formation to cause said formation to fracture.

11. An apparatus for treating a subterranean formation comprising:

(a) at least two burst disk assemblies, each assembly comprising a burst disk;

(b) an annulus isolation mechanism.

12. The apparatus of claim 11, further comprising a diversion mechanism for selectively preventing fluid flow through the burst disk assemblies.

13. The apparatus of claim 12, wherein said diversion mechanism includes ball sealers.

14. The apparatus of claim 12, wherein said diversion mechanism includes a proppant plug.